

10/501670

DT04 Rec 15 JUL 2004

**MAGNETIC SILICA PARTICLE FOR NUCLEIC ACID BINDING AND ISOLATION
OF NUCLEIC ACID****Patent number:** JP2000256388**Publication date:** 2000-09-19**Inventor:** MASUKAWA TORU; HIKATA MIKIO; HAN KAKUN**Applicant:** JSR CORP**Classification:****- international:** C07H21/04; C01B33/12; C07H21/02; C12M1/00;
C12N15/09**- european:****Application number:** JP19990063329 19990310**Priority number(s):****Abstract of JP2000256388**

PROBLEM TO BE SOLVED: To obtain a magnetic silica particle having excellent dispersion stability and magnetic separation, isolatable from a material containing a nucleic acid in high efficiency and with high purity, useful for nucleic acid binding in high productivity and to provide a method capable of isolating a nucleic acid from the material containing the nucleic acid in high efficiency and with high purity.

SOLUTION: The magnetic silica particle contains a metal or a metal oxide composed of a multidomain and has $\geq 0.1 \text{ m}^2/\text{g}$ and $< 100 \text{ m}^2/\text{g}$ specific surface area. The method for isolating a nucleic acid comprises a process for bringing the magnetic silica particle into contact with a material containing a nucleic acid in a solution for extracting the nucleic acid so as to bond the nucleic acid to the surface of the magnetic silica particle for nucleic acid binding, a process for separating the magnetic silica particle for nucleic acid binding bonded to the nucleic acid from the solution for extracting the nucleic acid by magnetism, and a process for dissociating the nucleic acid bound with the magnetic silica particle for nucleic acid binding from the magnetic silica particle for nucleic acid binding.

Data supplied from the **esp@cenet** database - Worldwide